Exhibit 1

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hard copy, via modem or computer, or by any other means,

- 12 Q. Of the 22 courses that you took in
- 13 electricity and electrical systems, what -- can you
- 14 quantity in any way, shape, or form the amount of time or
- 15 material that was taught relating specifically to
- 16 lithium-ion batteries?
- 17 A. I don't keep a record of that.
- 18 Q. Do you keep record whether it's materials,
- 19 PDF handout, or otherwise of the 22 courses involving
- 20 electrical systems you've taken?
- 21 A. I don't recall that. I didn't prepare
- 22 that for my deposition today. I mean, I'm certain that I
- 23 save a lot of file materials that I have into a job
- 24 folder that I have at work that includes articles that
- 25 I've reviewed, codes, treatises that I use. All of

that's in there that I've reviewed over the course of

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2 24 years.

- Q. Okay. When was the last course that you
- 4 took relating to electrical systems on this 1033 matrix?
- 5 A. So it would have been the fire
- 6 investigation master class. We certainly discussed it at
- 7 that time. And that was in 2024, this year. I think it

- 8 was March of 2024.
- 9 Q. And are those online courses, sir?
- 10 A. No, this particular one was in person.
- 11 Q. Where was that?
- 12 A. At IRIS Fire Investigations.
- Q. Who puts on those courses in electrical
- 14 systems?
- 15 A. I believe it was Bob Toth had spoke. And
- 16 then I may butcher his name. Dave Icove, I believe.
- 17 Q. Just judging by your CV, you are not a
- 18 mechanical engineer, correct?
- 19 A. No.
- Q. You're not an electrical engineer, correct?
- 21 A. No.
- Q. Aside from the continuing education
- 23 or courses relating to electrical systems, you don't have

- 24 any other specialized training in lithium-ion battery
- 25 failures?

1 MR. GIROUX: Form.

- THE DEPONENT: I certainly have training
- 3 in lithium-ion battery fires. I've also had many

- 4 discussions about this with other experts, electrical
- 5 experts, and certainly we've -- I've been involved in
- 6 cases where a battery-operated appliance, whatever you
- 7 want to call it, appliance item, toy, a piece of
- 8 equipment, that have all had lithium-ion batteries. So a
- 9 hover board to me is -- is electrical components that are
- 10 powered by battery that are consistent with other, again,
- 11 appliances or equipment that are battery operated.
- 12 Q. Aside from investigating those types of
- 13 fires and incidents, do you have any specialized education
- in the cause of lithium-ion battery failures?
- 15 A. I would say that there's some education in
- 16 those, continuing education courses, but that also
- 17 exceeds my expertise, and I would basically ask for an
- 18 additional consultant to review the hover board and
- 19 whether it was the cause of the fire.
- Q. Understood. And that's what I was getting
- 21 at. At least with regards to this case, you understand
- 22 that counsel that has retained you on behalf of the
- 23 defendants, Jetson and Walmart, they have retained other
- 24 experts in various fields, one of which includes a battery
- 25 expert to analyze potential failures in the lithium-ion

- 18 Q. You mentioned in your CV that your
- 19 consulting experience includes evaluation of commercial
- 20 kitchen cooking equipment, fire suppression system,
- 21 exhaust, duct and fan, and code-required inspections and
- 22 cleaning services. You also mentioned automobile, heavy
- 23 equipment, oil and gas, industry inspections or
- 24 investigations. Quantify for me the work that you do
- 25 relating to fire investigations involving e-mobility

- 1 devices.
- 2 A. Again, I don't keep record of that. I
- 3 couldn't tell you a percentage of how many fires I've
- 4 done that involve mobility devices that are battery
- 5 operate the.
- 6 Q. How many hover board fires have you
- 7 investigated?
- 8 A. Hover boards. I would say two.
- 9 Q. Including this one?
- 10 A. Correct.
- 11 Q. Okay. When was the last one prior to this
- 12 one?
- 13 A. It was in Colorado. I would say maybe

- 13 opinion.
- Q. When you say "we examined the circuit," "we
- 15 identified," "we looked visually at the interior for
- 16 evidence of arcing, "we" -- are you walking through and
- 17 doing all of that side by side with Mr. Strandjord?
- A. No, there's times where we're separated.
- 19 And in this particular case it was decided upon all the
- 20 participants and the experts in order to process the
- 21 scene a little bit more efficiently, we separated in two
- 22 groups initially. So initially there was a group that
- 23 was working at the exterior of the structure. That
- 24 included myself on our side. And then Mr. Strandjord was
- 25 working inside the bedroom. And then once kind of the

- 1 debris removal was completed and we're just kind of in
- 2 the documentation phase of our work, we certainly would
- 3 have been together and we were looking for additional
- 4 evidence of arcing. If there was anything that I would
- 5 have seen that was either what I thought was arcing or
- 6 could be arcing or anything like that, I would have
- 7 addressed that with Mr. Strandjord.
- Q. And so if I understood your testimony, when

- 9 you and Mr. Strandjord would come together that would have
- 10 been during the documentation phase?
- 11 A. Yeah, I would say -- it was after we
- 12 finished the -- or the debris removal and reconstruction
- 13 of the shed. They were working inside. And then -- and
- 14 eventually it kind of became -- you know, we were kind of
- 15 walking together through the house, examining circuits,
- 16 examining the circuit breaker. I mean, I remember being
- 17 at the circuit panel with Mr. Strandjord. So, yeah,
- 18 there's a point in time during that inspection where
- 19 we're together and walking through and talking about this
- 20 and discussing it.
- Q. Do you hold yourself out as an expert in
- 22 arc mapping?
- A. Not arc mapping.
- Q. Do you defer to Mr. Strandjord with regards
- 25 to any opinions in the field of arc mapping, correct?

- 1 MR. GIROUX: Form.
- THE DEPONENT: Correct. I think he's a
- 3 little bit more knowledgeable than I am. Certainly I've
- 4 conducted arc mapping analysis myself and arc mapping on

- 5 simple sites. But in this particular case,
- 6 Mr. Strandjord was involved, so I relied upon
- 7 Mr. Strandjord for parts of that.
- Q. (By Mr. Ayala) You say parts of it. What
- 9 parts did you not rely on him for as it relates to the arc
- 10 mapping?
- 11 A. I would say -- well, I'm talking about arc
- 12 mapping analysis. That's what I did not rely upon.
- 13 Mr. Strandjord totally -- we did discuss. He provided
- 14 feedback and I provided feedback.
- 15 Q. Okay. Did you make any changes to his
- 16 ultimate conclusion as expressed to you which he compiled
- 17 and rendered for arc mapping?
- 18 A. Can you repeat the question?
- 19 Q. Yes, sir.
- 20 Did you make any changes to his ultimate
- 21 conclusions as it relates to arc mapping?
- A. No, I did not.
- Q. Given the fact that you and Mr. Strandjord
- 24 were separated for at least portions of this scene
- 25 investigation or inspection, are you familiar with every

- 18 you conducted to verify the reliability or accuracy of the
- 19 arc mapping and you've given me at least a portion of your
- 20 opinions and analysis as to the application of the
- 21 mark -- of the arc mapping. But what I'm really asking
- 22 you is what testing -- other than thought, what testing
- 23 did you do to verify the arc mappings for reliability or
- 24 accuracy?
- A. Yeah, I don't know that that's accurate.

- 1 And maybe we should get the court reporter to read that
- 2 back, because I think the original question was State
- 3 everything that I did to -- or what testing I did to
- 4 determine that. And that's what I'm -- that's what I
- 5 discussed in the beginning was those are the thought
- 6 experience -- thought experiments that I use to apply the
- 7 arc mapping analysis to the fire dynamics and the fire
- 8 patterns and render an opinion as to how and when that
- 9 arcing occurred.
- 10 Q. So clearly we're having a little bit of a
- 11 miscommunication, and that's my fault. I'll take
- 12 ownership of that. I'm not asking you how you applied the
- arc mapping to ultimately analyze and render the opinions

- 14 you did as to origin of the fire. What I'm asking you is
- 15 what did you do by way of testing to verify the arc
- 16 mapping's accuracy and reliability. That's what I'm
- 17 asking you.
- 18 MR. GIROUX: Objection. Asked and
- 19 answered.
- 20 A. Absolutely. I think I've discussed this
- 21 in this case and other questions as well. Everything
- 22 that I've done to complete my arc mapping analysis in
- 23 this case. And that included everything that I've
- 24 discussed to this point.
- Q. (By Mr. Ayala) Well, the fire patterns and

- 1 fire dynamic analysis conducted by Dr. Gorbett, did you
- 2 rely on him for those?
- 3 A. I relied on Mr. Gorbett for the fire
- 4 testing and fire modeling.
- 5 Q. That included the burn of the exemplar
- 6 shed?
- 7 A. Correct.
- 8 Q. That included any and all calculations
- 9 relating to its fire modeling?

- 10 A. I'm not going to repeat his calculations.
- 11 Q. I didn't ask you to, sir. Just asking as
- 12 to your reliance. You relied on all of his calculations
- 13 that included and encompassed his fire modeling opinions?
- 14 A. I relied on his summary of his fire models
- 15 that he produced. I had conversations with Dr. Gorbett.
- 16 I've read his report. I've reviewed his methodology
- 17 within his report. I've reviewed the data in his report,
- 18 and nothing suggests to me, nor have I ever been offered
- 19 any evidence as to why that model was unreliable.
- 20 Everything to me was are suggestive that that fire model
- 21 that Mr. Gorbett produced was reliable in this case.
- Q. Did you review any of the data that -- that
- 23 he used and annualized and calculated for purposes of
- 24 ultimately rendering his fire modeling opinions?
- 25 A. Again, what was in his report and what we

- 1 discussed, again, there was nothing that I saw that was
- 2 incorrect.
- Q. I appreciate that, sir. But what's the
- 4 answer to my question?
- 5 A. Okay. Could you repeat the question?

- 6 Q. Yeah.
- 7 Did you review any of the data that he
- 8 used, the calculations that he made to ultimately render
- 9 his fire modeling opinions that were summarized in his
- 10 report?
- 11 A. I reviewed -- well, we reviewed on -- on a
- 12 conference call -- a Zoom conference call several of the
- 13 videos of burn testing, and we ran a couple of fire --
- 14 several of the models as well. I did not review the
- 15 actual calculations.
- 16 Q. Again, that's just something you're relying
- on Dr. Gorbett in terms of its accuracy, correct?
- 18 A. Correct.
- 19 Q. So you relied on him for those two
- 20 components, the fire testing and fire modeling. You
- 21 relied on Mr. Strandjord for the arc mapping. Did you
- 22 rely on Mr. Sudler for anything related to your ultimate
- 23 opinions?

- A. No, because I don't have an opinion that
- 25 the fire originated at the hover board.

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Q. Okay. Did you do any -- any examination of

- 2 the hover board components related to your -- the scope of
- 3 your work in this case?
- 4 A. I reviewed and inspected the hover board
- 5 from an aspect of fire patterns.
- 6 Q. As we discussed earlier, obviously when it
- 7 comes to potential failure of the lithium-ion battery of
- 8 the subject hover board, that's something you defer to
- 9 Mr. Sudler and any other expert qualified?
- 10 A. Correct.
- 11 Q. As you go about your forensic investigation
- 12 specifically relating to this case, do you follow
- 13 NFPA 921?
- 14 A. Yes, I do.
- 15 Q. Do you believe that NFPA 921 is
- 16 authoritative and required for purposes of fire
- 17 investigations?
- 18 A. Yes, I do.
- 19 Q. Given your reliance on NFPA 921, you
- 20 understand that it requires analysis -- complete analysis
- 21 of all available evidence?
- 22 A. Yes.
- Q. Do you believe that occurred at least with
- 24 regards to your involvement in this case, correct?
- 25 A. Absolutely, yes.

1 0. And you agree -- or believe that it occurred with regards to Mr. Strandjord and Dr. Gorbett's 2 3 analysis and opinions in this case which you relied on? 4 Α. Those are two components that I relied upon -- or excuse me -- three components that I relied 5 6 upon. 7 Okay. And so given your reliance on that, Q. you believe that they would have complied with NFPA 921 as 8 9 to complete analysis of all available evidence as well? 10 Α. Correct. 11 Q. If they did not comply with NFPA 921 by 12 failing to review or analyze all available evidence, does that render their opinions unreliable? 13 14 MR. GIROUX: Form. 15 THE DEPONENT: If at any point in time I thought Mr. Strandjord's or Mr. Gorbett's opinions in 16 17 this case were unreliable, I would have not used them in 18 this case to conclude the origin and cause of my fire. 19 (By Mr. Ayala) I appreciate that, sir, but 0. that wasn't exactly my question. 20 21 Do you agree that failing to conduct a

complete analysis of all available evidence in this fire

- 23 investigation is a failure to comply with NFPA 921?
- 24 A. Yes.
- Q. And if either Dr. Gorbett or Mr. Strandjord

- failed to conduct a complete analysis of all available
- 2 evidence within their field of specialty, if you will,
- 3 then that would amount to a failure to comply with
- 4 NFPA 291?
- 5 MR. GIROUX: Form.
- 6 THE DEPONENT: Correct.
- 7 Q. (By Mr. Ayala) And if that occurred in
- 8 this hypothetical, then their failure to conduct a
- 9 complete analysis of all available evidence would render
- 10 their ultimate opinion unreliable at least pursuant to
- 11 NFPA 291?
- MR. GIROUX: Form.
- 13 THE DEPONENT: Correct.
- 14 Q. (By Mr. Ayala) You have expressed in your
- 15 report, sir, some criticism of Detective Sheaman related
- 16 to his origin and cause investigation, correct?
- 17 A. Correct.
- 18 Q. What are your criticisms of his fire

- 19 investigation related to this Wadsworth case?
- 20 A. Certainly I can refer to my report to go
- 21 over everything, but if you don't want me to waste that
- 22 time, I can certainly just come up with a few particular
- 23 topics that I disagree with.
- Q. Yeah, it's up to you, sir. Whatever mode
- 25 is complete for you. But I would assume that you've lived

- 1 with this case for a while so you're probably aware of
- 2 what your criticism are of those individuals, including
- 3 Sheaman.
- 4 A. Correct.
- I think some of the biggest topic -- I
- 6 think to start with would be interpretation of fire
- 7 patterns. I completely disagree with Mr. Sheaman that a
- 8 V pattern -- or the visual characteristics of a V pattern
- 9 are displayed on the west interior wall and continue on
- 10 the south interior wall of bedroom number 4. I certainly
- 11 disagree with his assessment that the V pattern is
- 12 somehow related to this fire. I certainly think also
- 13 that his opinion in his deposition that this V pattern
- 14 connected to a protected pattern is somehow the origin of

- 14 for -- could you repeat the question?
- 15 Q. (By Mr. Ayala) Sure. And let me -- let me
- 16 make it a little bit easier.
- 17 A. Sure.
- 18 Q. In conclusion number 2, you rely upon an
- 19 assumption that Mrs. Wadsworth improperly discarded a
- 20 cigarette which ignited the combustible materials and
- 21 thereby the shed, correct?
- A. Again, I think I disagree with the word
- 23 "assumption." There were no assumptions made. And I'd
- 24 certainly -- I think you had previously used the word
- 25 "leap." So what I did in this case was I determined the

- 1 origin of this fire, then I identified the potential
- 2 ignition sources within this fire. I identified the
- 3 materials that were located in the shed that would have
- 4 been adjacent to any of these potential ignition sources.
- 5 I evaluated those ignition sources. I evaluated the
- 6 materials that were in that room. I evaluated the
- 7 potential ignition sequence of that fire. And my final
- 8 selection of hypothesis was that the probable cause of
- 9 this fire was from ignition of the smoldering coal that

- 10 ignited adjacent combustible materials.
- 11 Q. Where specifically was Mrs. Wadsworth
- 12 smoking that cigarette approximately two hours before the
- 13 fire within that shed?
- 14 A. I was told it was within that shed, and I
- 15 believe that they had reported that the -- there was a
- 16 chair on the -- that would be the north side of the shed.
- 17 There was a table. That's where the ashtrays were. Then
- 18 there was an additional chair I believe at the -- that
- 19 would be the south end. I don't recall exactly where she
- 20 was sitting when she smoked the cigarette.
- Q. Okay. You would agree with me there's
- 22 no -- there's no evidence in the case as to where she was

- 23 specifically sitting?
- A. Not specifically sitting, no.
- Q. Or if she was standing?

1 A. No.

- Q. You would agree with me that there's no
- 3 evidence in this case for how long she was smoking this
- 4 cigarette approximately two hours before the fire?
- 5 A. I don't think that was discussed of how

- 6 long she was puffing on the cigarette inside the shed,
- 7 the time she was last at the shed.
- 8 Q. You would agree with me there's no evidence
- 9 as to how much was left of anything of the cigarette that
- 10 he was smoking approximately two hours before the fire?
- MR. GIROUX: Form.
- 12 THE DEPONENT: Correct. I think that
- 13 would have been consumed by this fire.
- 14 Q. (By Mr. Ayala) You would agree with me
- 15 there's no evidence as to which ashtray, if any, she
- 16 placed the cigarette prior to exiting the shed?
- 17 MR. GIROUX: Form.
- 18 THE DEPONENT: Correct. I think there was
- 19 testimony that there was an ashtray that we found that
- 20 was consistent with Mr. Wadsworth and Stephanie's
- 21 description of the ashtray. And there was this -- I
- 22 don't know if you would call it like a small
- 23 skillet -- kind of like a cast iron skillet. But it
- 24 didn't have very, like, high sides or anything
- 25 [indicating]. They were using that. And then there was

1 also some discussion of a bucket of cigarettes or a

- 2 cigarette -- or excuse me -- a bucket that contained
- 3 cigarettes.
- 4 Q. Regardless, there's no evidence as to which
- of those three Mrs. Wadsworth used to put out her
- 6 cigarette before exiting the shed, correct?
- 7 MR. GIROUX: Form.
- 8 THE DEPONENT: Correct. Correct.
- 9 Q. (By Mr. Ayala) There's no evidence to
- 10 suggest that she didn't attempt to put out her cigarette
- before exiting the shed, correct?
- MR. GIROUX: Form.
- 13 THE DEPONENT: There would be no physical
- 14 evidence left after that fire.
- Q. (By Mr. Ayala) And by way of even
- 16 testimony, there's no evidence to suggest that she never
- 17 attempted to put out that cigarette, correct?
- 18 A. I would have to go back and review the
- 19 deposition, but I don't -- I don't think I can review
- 20 today that she said specifically whether I extinguished
- 21 the cigarette or exactly how she extinguished the
- 22 cigarette. I think there was testimony that she just,
- 23 you know, discarded the cigarette in the ashtray -- one
- 24 of the ashtrays.
- Q. Have you done -- related to this case, have

- 1 you done any type of testing as to this smoldering
- 2 analysis of the cigarette?
- 3 A. I conducted thought experiments in
- 4 compliance with an NFPA 921. And I'm sorry. Can you
- 5 repeat the question again?
- 6 Q. Yeah. Have you done any testing to verify
- 7 the smoldering analysis of a cigarette?
- 8 A. I have not conducted any physical tests on
- 9 testing whether a cigarette can ignite adjacent
- 10 combustible materials.
- 11 Q. Ever, correct?
- 12 A. In this case or other cases?
- 13 Q. In any other case. I understand your
- 14 testimony as to this case. But I'm asking now have you
- 15 ever done such an analysis through testing.
- 16 A. I can recall a few cases where either I
- 17 did that testing or I reviewed that testing. And
- 18 certainly I would review -- have reviewed numerous
- 19 articles and textbooks about cigarette ignition.
- Q. Okay. And I'm specifically talking about
- 21 you. Have you conducted any such testing?
- 22 A. No.

- Q. Have you reviewed any testing performed by
- 24 Dr. Gorbett, Mr. Sudler, Mr. Stranjord relating to the
- 25 smoldering analysis of a cigarette in this case?

- 1 A. I don't recall, no.
- Q. In fact, you're aware that none of them
- 3 conducted such a -- such testing, correct?
- 4 A. Correct.
- 5 Q. Did you do any testing relating to the
- 6 combustible materials within the shed on the date of
- 7 incident?
- 8 A. No testing.
- 9 Q. And by the way, when you -- you've
- 10 mentioned it a couple of times. Thought experiments. Are
- 11 you basically telling this jury you're thinking and
- 12 analyzing the data or the evidence?
- 13 A. Yes, that's what I think a fire
- 14 investigator does throughout his entire investigation.
- 15 Q. I'm just trying to understand your
- 16 terminology of thought experiments. You're thinking about
- 17 it?
- 18 A. Yeah, the thought experiments are located

- 19 within that NFPA 921. And it discusses using thought
- 20 experiments to test our hypothesis, and that's what I was
- 21 doing in this case. And that's what I did throughout
- 22 this entire case on every hypothesis that I had.
- Q. Okay. Do you -- is one of your opinions
- 24 that Mr. Schulz did not conduct thought experiments?
- A. No, I think Mr. Sheaman conducted you

- 1 thought experiments. I think his analysis at -- the
- 2 interpretation of fire patterns, among everything, is
- 3 incorrect.
- 4 Q. Okay. And I'm sorry. I said Schulz. You
- 5 said Sheaman. Let me just clarify my question. It's
- 6 okay.
- 7 A. Sorry.
- Q. Just hearing your -- your testimony, you
- 9 you believe Detective Sheaman conducted you thought
- 10 experiments, but you certainly disagree with the
- 11 conclusions of those thought experiments; is that fair?
- 12 A. Correct.
- 13 Q. Okay. Same question as to Mr. Schulz. You
- 14 believe that he conducted thought experiments, but you

- 12 that occurred on the power cord for the space heater and
- 13 the extension cord that were in the shed. Certainly
- 14 those are possible ignition sources that I evaluated in
- 15 determining the -- or the cause of this fire.
- 16 Q. Did you ultimately rule out those two
- 17 possibilities, the power cord and the space heater?
- 18 A. Certainly not completely. They are
- 19 possibilities. And in 921 we have basically two levels
- 20 of probability, possible and probable. Probable being
- 21 greater than 50 percent; possible being less than
- 22 50 percent. So the way I reported it in my case was the
- 23 probable cause of the fire was the ignition from a
- 24 cigarette. And that I evaluated those two other
- 25 potential ignition sources and didn't think that they

- 1 were viable ignition sources in this case and with the
- 2 materials present.
- Q. Okay. And so the only -- to use your term,
- 4 the only viable ignition source in this case, based on
- 5 your review and analysis, is the smoldering cigarette?
- 6 A. Not the viable, but the probable.
- 7 Q. Okay. Did you ever reach an opinion as to

- 8 whether or not Mrs. Wadsworth attempted to put out the
- 9 cigarette?
- 10 A. No. I have statements that she smoked
- 11 outside, and that's the evidence that I was using to
- 12 indicate that there was smoking in the shed that occurred
- 13 two hours prior.
- Q. Would it be relevant to your analysis to
- 15 know that she attempted to put out the cigarette?
- MR. GIROUX: Form.
- 17 THE DEPONENT: I think in the 24 years
- 18 that I've been doing this everyone has said that they put
- 19 out the -- the cigarette properly, and that it was
- 20 100 percent extinguished. And I would say that the
- 21 majority of people that I interview don't typically admit
- 22 to not putting out the cigarette correctly before, you
- 23 know, placing it into combustibles or adjacent
- 24 combustibles and so forth. So what I do is I take that
- 25 statement and apply it to the potential ignition sources

- 1 in this room. I know that she was smoking in that shed.
- 2 And that's what I applied to my -- to my opinions.
- Q. (By Mr. Ayala) I appreciate that, sir.

- 4 But my only question was, would it be relevant for you to
- 5 know whether or not she attempted to put it out?
- 6 MR. GIROUX: Form.
- 7 THE DEPONENT: Not necessarily.
- 8 Q. (By Mr. Ayala) Would it be relevant for
- 9 you to know for purposes of your analysis how much of the
- 10 cigarette was left?
- 11 A. No. As long as there's a coal still left
- 12 on it, then it's a potential ignition source.
- 13 Q. Would it be relevant for you to know the
- 14 rate at which the cigarette was burning after she left the
- 15 shed?
- MR. GIROUX: Form.
- 17 THE DEPONENT: I don't think that's
- 18 required to come to the conclusion that the probable
- 19 cause of this fire was from cigarette ignition.
- Q. (By Mr. Ayala) How many cases prior to
- 21 this one have you concluded that -- along the lines of
- 22 this smoldering cigarette analysis that an improperly
- 23 discarded cigarette was the cause of a fire?
- A. I couldn't even begin to count. There's
- 25 been a lot.